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Proposed Amendment USSN 10/037,925

Cancel claims 1 - 7, 11 - 13 and 15 - 54 without prejudice.

## 8. (Amended) A method of alignment, comprising the steps of: holding a first optical element in opposition to a sec-5 ond optical element for interalignment therewith, said second optical element including a plurality of receivers including a first marginal receiver and a second marginal receiver, said first optical element having a first axis and a second axis, and said second optical element having a third axis and a fourth 10 axis; detecting a plurality of light signals that pass from said first optical element to said second optical element, said light signals including a first light signal that impinges on said first marginal receiver, and a second light signal that im-15 pinges on said second marginal receiver; in a first phase of operation rotating said first optical element about a Y-axis until said second axis is in a parallel alignment with said fourth axis; and in a second phase of operation displacing said first 20 optical element along said Y-axis; while displacing said first optical element along said Y-axis, recording a signal strength of said first light signal and said second light signal; and displacing said first optical element along a Z-axis 25 until said signal strength has an optimal value, [The method according to claim 1] further comprising the steps of: in said first phase of operation displacing said first optical element stepwise on an interval of said Z-axis,

defining a plurality of incremental positions thereon;

said first optical element on an interval of said Y-axis;

at each of said incremental positions displacing

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while said step of displacing said first optical element on said interval of said Y-axis is being performed, determining a function of said first light signal and determining a [said] function of said second light signal;

after said step of displacing said first optical element stepwise on said interval of said Z-axis has been performed, determining a first point on said Z-axis where said function of said first light signal has a first optimum value and a second point on said Z-axis where said function of said second light signal has a second optimum value;

calculating a difference  $\Delta Z$  between said second point and said first point;

responsive to said step of calculating rotating said first optical element about said Y-axis to reduce a distance between said first marginal receiver and said second point.

9. (Original) The method according to claim 8, wherein said step of rotating said first optical element about said Y-axis comprises rotation by an angle  $\theta$  that is given by

 $\theta = \sin^{-1} (\Delta Z/d)$ 

where d is a displacement between said first marginal receiver and said second marginal receiver.

10. (Original) The method according to claim 8, wherein said function is a full-width half maximum, said first optimum value and said second optimum value are each a minimum value of said function.

14. (Amended) A method of alignment, comprising the steps of:

holding a first optical element in opposition to a second optical element for interalignment therewith, said second optical element including a plurality of receivers including a first marginal receiver and a second marginal receiver, said 5

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first optical element having a first axis and a second axis, and said second optical element having a third axis and a fourth axis;

detecting a plurality of light signals that pass from said first optical element to said second optical element, said light signals including a first light signal that impinges on said first marginal receiver, and a second light signal that impinges on said second marginal receiver;

in a first phase of operation rotating said first optical element about a Y-axis until said second axis is in a parallel alignment with said fourth axis; and

in a second phase of operation displacing said first optical element along said Y-axis;

while displacing said first optical element along said Y-axis, recording a signal strength of said first light signal and said second light signal; and

displacing said first optical element along a Z-axis until said signal strength has an optimal value, [The method according to claim 1] further comprising the steps of:

in a first iteration: displacing said first optical element on an interval of said Y-axis;

while said step of displacing said first optical element is being performed in said first iteration, determining a first point on said Y-axis wherein said first signal has a first maximum magnitude, and a second point on said Y-axis where said second signal has a second maximum magnitude [determining a first magnitude of a second signal at said first point];

rotating said first optical element about said Zaxis by a first increment;

in a second iteration: displacing said first optical element on said interval of said Y-axis;

while said step of displacing said first optical element is being performed in said first iteration, determining a third point on said Y-axis wherein said first signal has a «DocketNumber»

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third maximum magnitude, and a fourth point on said Y-axis where said second signal has a fourth maximum magnitude [determining a first magnitude of a second signal at said first point];

responsive to a difference between said <u>third</u>

[first] magnitude and said [second] <u>fourth</u> magnitude, rotating said first optical element about said Z-axis by a second increment.